

Applicant : Zhu et al.
Appl. No. : 10/524,089
Examiner : Unknown
Docket No. : 700603.2(1)

Addition of New Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1. (currently amended) A ~~transgenic~~ chicken selectively expressing exogenous protein in tubular gland cells wherein the protein is encoded by a transgene stably integrated into a genome of the chicken and wherein the transgene is comprised at least a portion of a promoter of a gene encoding an egg white protein that is operably linked to DNA encoding the exogenous protein.
2. (currently amended) The ~~transgenic~~ chicken of claim 1 further comprising at least a second portion of a promoter of a gene encoding an egg white protein flanking the 3' end of the DNA encoding the exogenous protein..
3. (currently amended) The ~~transgenic~~ chicken of claim 1 wherein the exogenous protein is a monoclonal antibody.
4. (currently amended) The ~~transgenic~~ chicken of claim 3 wherein the monoclonal antibody is comprised of a human heavy chain.
5. (currently amended) The ~~transgenic~~ chicken of claim 4 wherein the monoclonal antibody is isotype IgG.
6. (currently amended) The ~~transgenic~~ chicken of claim 1 wherein the egg white protein is ovalbumin.
7. (currently amended) The ~~transgenic~~ chicken of claim 1 wherein the egg white protein is selected from the group consisting of ovotransferrin, ovomucoid, lysozyme, ovoglobulin G2, ovoglobulin G3, ovoinhibitor, cystatin, ovoglycoprotein, ovoflavoprotein, ovomacroglobulin, and avidin.
8. (currently amended) The ~~transgenic~~ chicken of claim 1 wherein the size of the transgene is greater than 15 kb.
9. (original) A chicken egg containing a human protein in the egg white, wherein the human protein is encoded by a transgene stable integrated into the genome of a transgene chicken.
10. (original) The egg of claim 9 wherein the human protein is a monoclonal antibody.

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11. (New) A vector comprising a promoter linked to a heterologous coding sequence to express said coding sequence in tubular gland cells of an avian oviduct.
12. (New) The vector of claim 11, wherein said promoter is selected from the group consisting of an ovomucoid, ovalbumin, lysozyme, and ovomucin promoter.
13. (New) The vector of claim 11, further comprising a gene encoding a selectable marker.
14. (New) The vector of claim 11, further comprising an internal ribosome entry site element.
15. (New) The vector of claim 11, wherein the heterologous coding sequence encodes a human antibody.